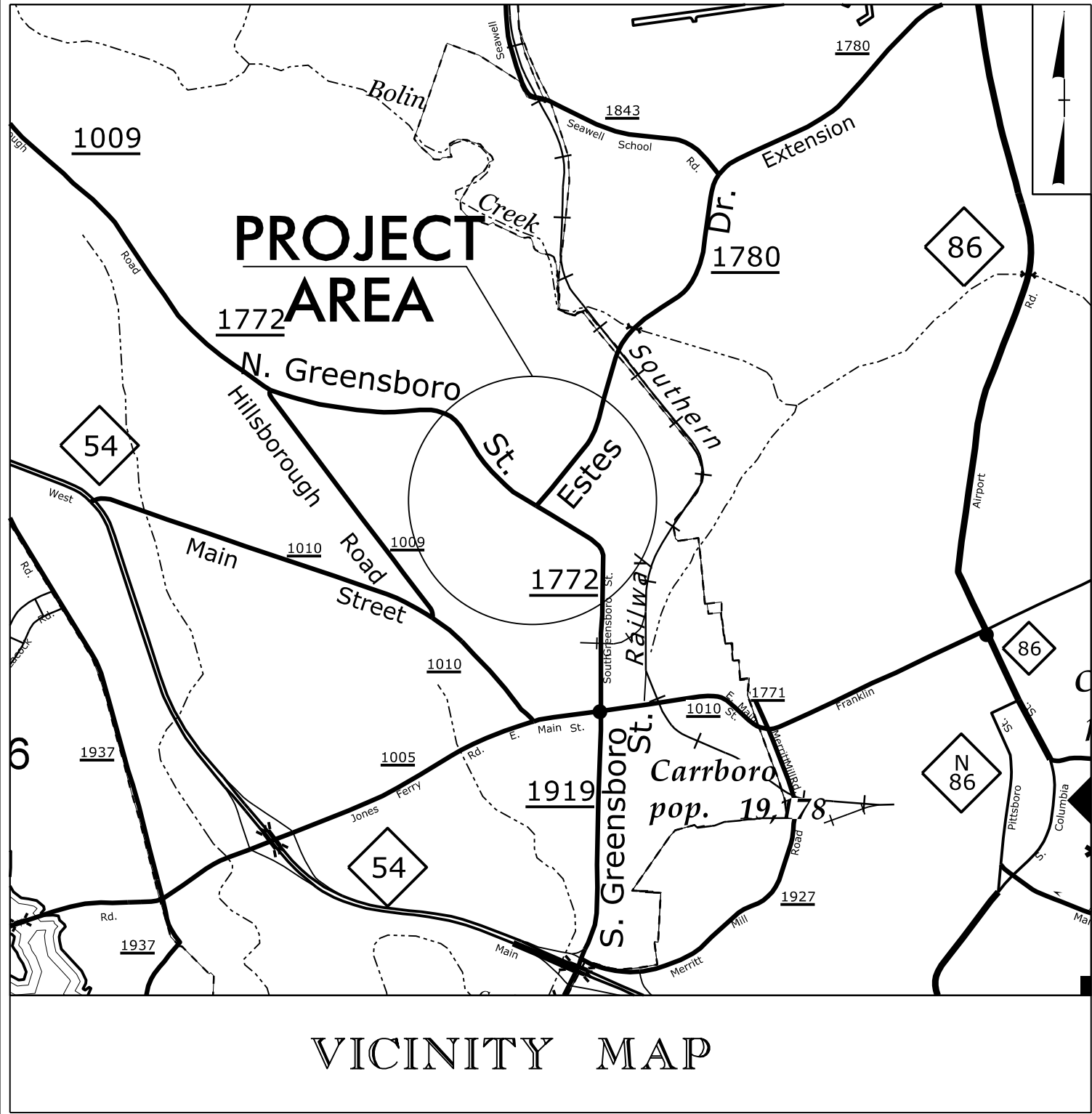


TIP PROJECT: U-5846

CONTRACT:

See Sheet 1-A For Index of Sheets
See Sheet 1B For Conventional symbols
See Sheet 1C For Survey Control Sheet



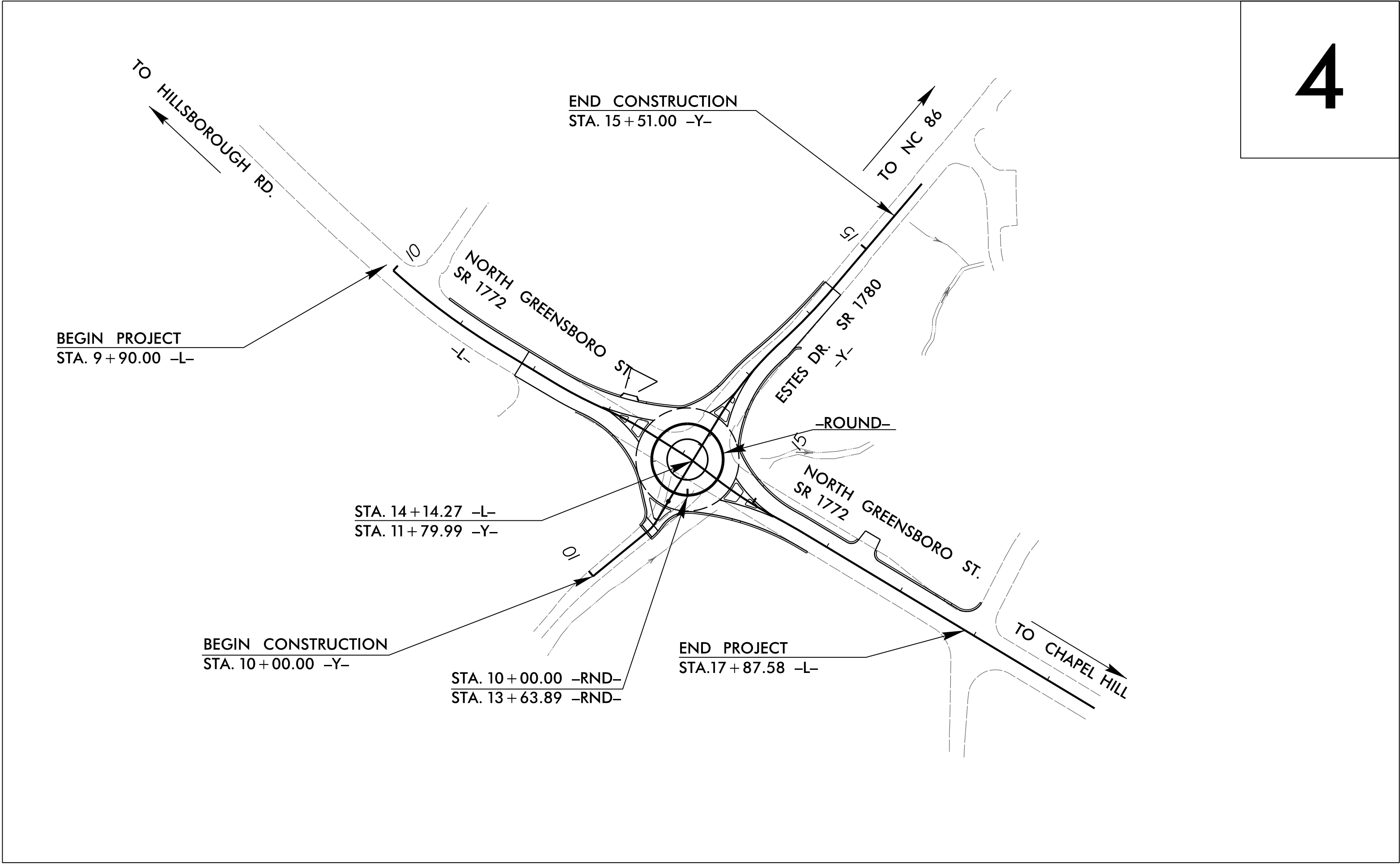
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ORANGE COUNTY

LOCATION: INTERSECTION IMPROVEMENT AT SR 1772 (NORTH GREENSBORO STREET) AND SR 1780 (ESTES DRIVE)

TYPE OF WORK: GRADING, DRAINAGE, AND PAVING

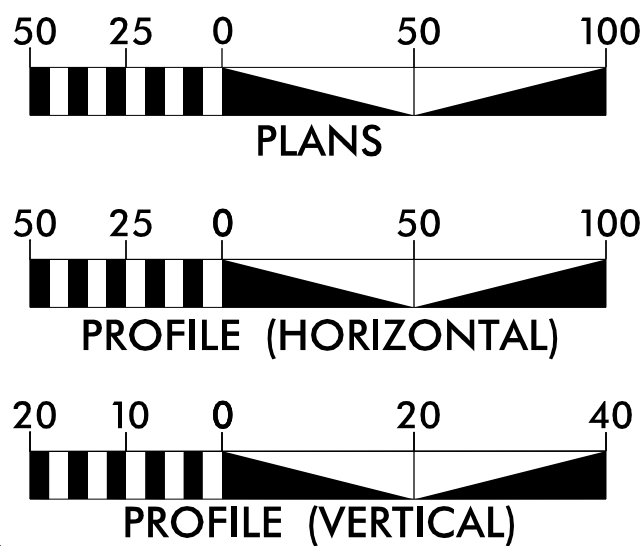
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5846	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50236.1.1		PE	
50236.2.1		R/W	
50236.3.1		CONST.	



THIS PROJECT IS WITHIN CARBORO MUNICIPAL BOUNDARIES
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2015 = 11,700
ADT 2040 = 15,300
K = 60 %
D = 10 %
T = 5 % *
V = 40 MPH
* TTST = 1 DUAL 4
FUNC CLASS =
MINOR ARTERIAL
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-5846 = 0.151 Miles
TOTAL LENGTH TIP PROJECT U-5846 = 0.151 Miles

Prepared in the Office of:

SEPI
ENGINEERING &
CONSTRUCTION

1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JUNE 30, 2017

LETTING DATE:
JANUARY 16, 2018

BEN CRAWFORD, PE
PROJECT ENGINEER

MATTHEW COPPLE, PE
PROJECT DESIGN ENGINEER

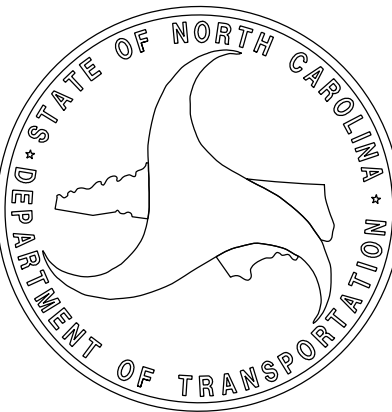
CHRIS SMITHERMAN, PE
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

**ROADWAY DESIGN
ENGINEER**

SIGNATURE: _____ P.E.



STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS
CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	
Computed Property Corner	
Property Monument	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	

HYDROLOGY:

Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Exist Permanent Easment Pin and Cap	
New Permanent Easement Pin and Cap	
Vertical Benchmark	
Existing Right of Way Marker	
Existing Right of Way Line	
New Right of Way Line	
New Right of Way Line with Pin and Cap	
New Right of Way Line with Concrete or Granite R/W Marker	
New Control of Access Line with Concrete C/A Marker	
Existing Control of Access	
New Control of Access	
Existing Easement Line	
New Temporary Construction Easement	
New Temporary Drainage Easement	
New Permanent Drainage Easement	
New Permanent Drainage /Utility Easement	
New Permanent Utility Easement	
New Temporary Utility Easement	
New Aerial Utility Easement	

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	

VEGETATION:

Single Tree	
Single Shrub	

Hedge	
Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

POWER:	
Existing Power Pole	
Proposed Power Pole	
Existing Joint Use Pole	
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	
U/G Power Line LOS B (S.U.E.*)	
U/G Power Line LOS C (S.U.E.*)	
U/G Power Line LOS D (S.U.E.*)	

TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Cable LOS B (S.U.E.*)	
U/G Telephone Cable LOS C (S.U.E.*)	
U/G Telephone Cable LOS D (S.U.E.*)	
U/G Telephone Conduit LOS B (S.U.E.*)	
U/G Telephone Conduit LOS C (S.U.E.*)	
U/G Telephone Conduit LOS D (S.U.E.*)	
U/G Fiber Optics Cable LOS B (S.U.E.*)	
U/G Fiber Optics Cable LOS C (S.U.E.*)	
U/G Fiber Optics Cable LOS D (S.U.E.*)	

WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line LOS B (S.U.E.*)	
U/G Water Line LOS C (S.U.E.*)	
U/G Water Line LOS D (S.U.E.*)	
Above Ground Water Line	

TV:

TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Cable LOS B (S.U.E.*)	
U/G TV Cable LOS C (S.U.E.*)	
U/G TV Cable LOS D (S.U.E.*)	
U/G Fiber Optic Cable LOS B (S.U.E.*)	
U/G Fiber Optic Cable LOS C (S.U.E.*)	
U/G Fiber Optic Cable LOS D (S.U.E.*)	

GAS:

Gas Valve	
Gas Meter	
U/G Gas Line LOS B (S.U.E.*)	
U/G Gas Line LOS C (S.U.E.*)	
U/G Gas Line LOS D (S.U.E.*)	
Above Ground Gas Line	

SANITARY SEWER:

Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Forced Main Line LOS B (S.U.E.*)	
SS Forced Main Line LOS C (S.U.E.*)	
SS Forced Main Line LOS D (S.U.E.*)	

MISCELLANEOUS:

Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line LOS B (S.U.E.*)	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
U/G Test Hole LOS A (S.U.E.*)	
Abandoned According to Utility Records	
End of Information	

PROJECT REFERENCE NO.
U-5846

SHEET NO.
2A-1

RW SHEET NO.

ROADWAY DESIGN
ENGINEER

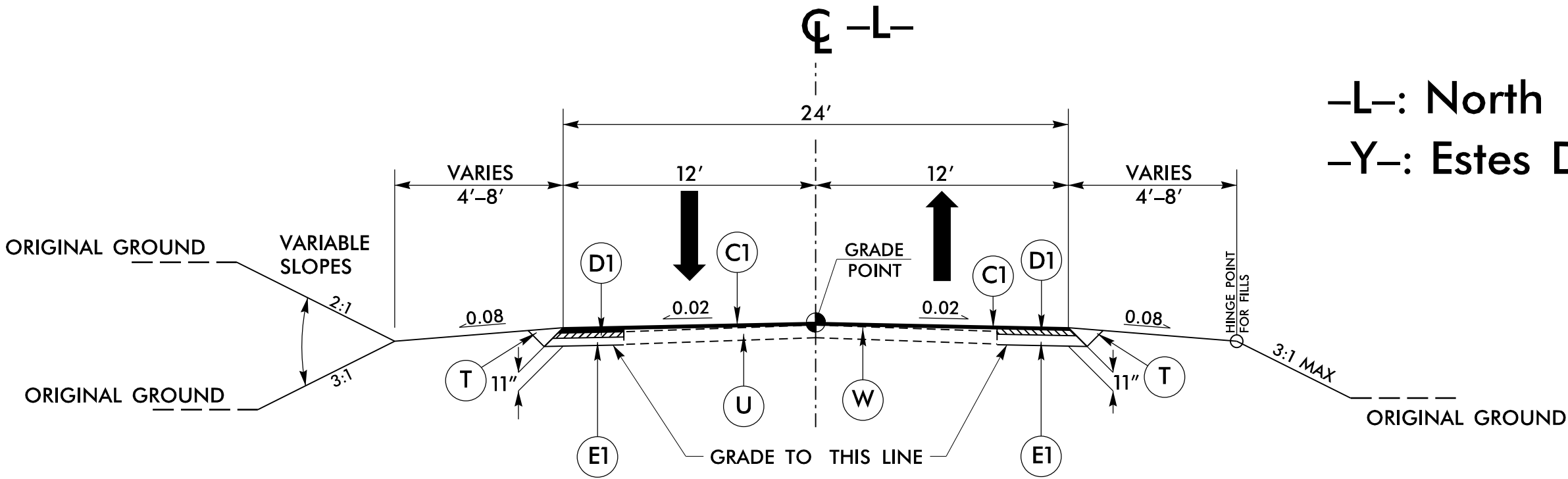
PAVEMENT DESIGN
ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

SEPI

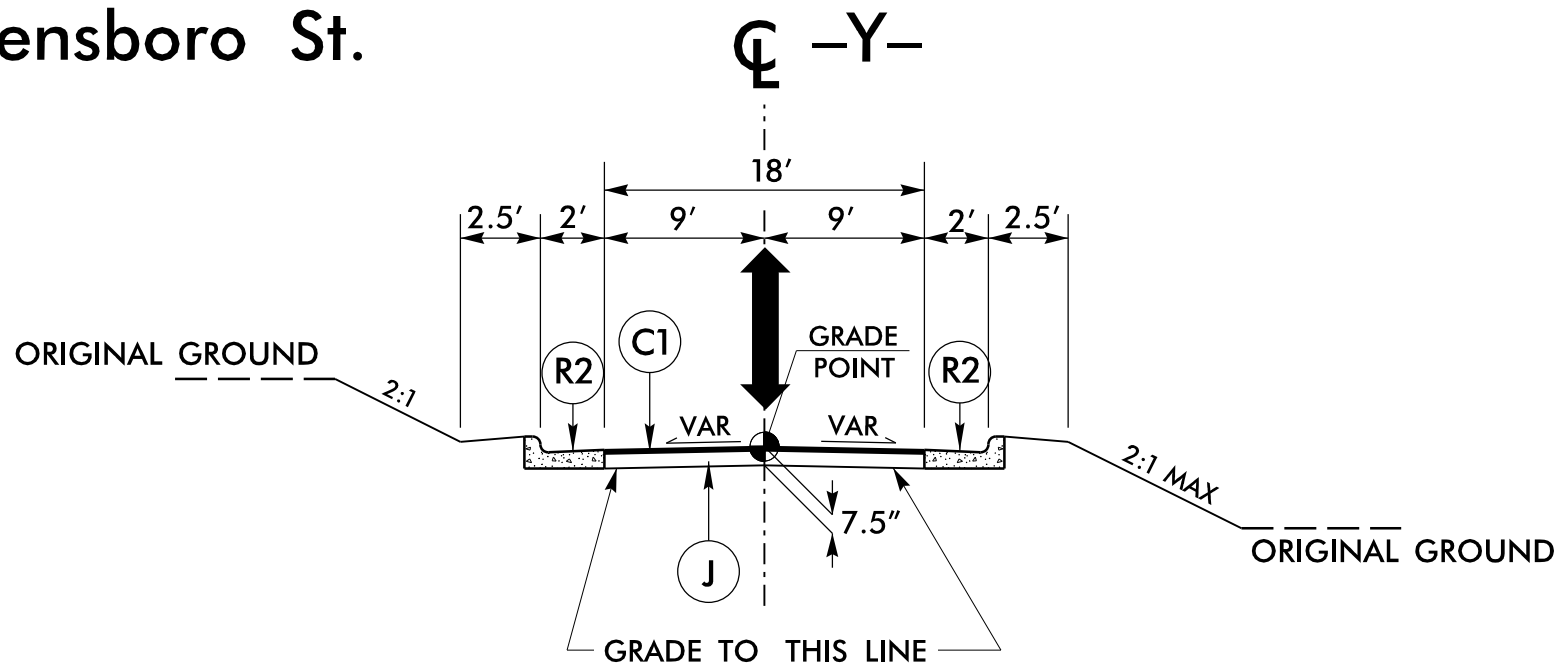
ENGINEERING &
CONSTRUCTION

1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197



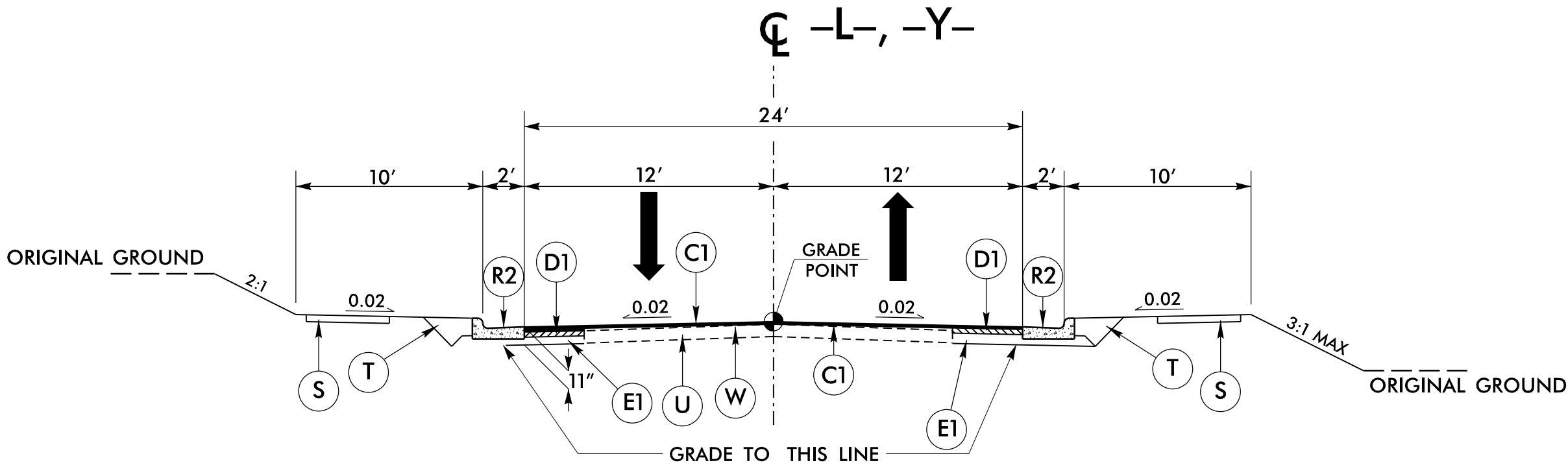
ROADWAY TYPICAL SECTION NO. 1

-L- STA. 11+85.00 TO 12+65.80



ROADWAY TYPICAL SECTION NO. 2

-Y- STA. 10+80.00 TO 11+18.00

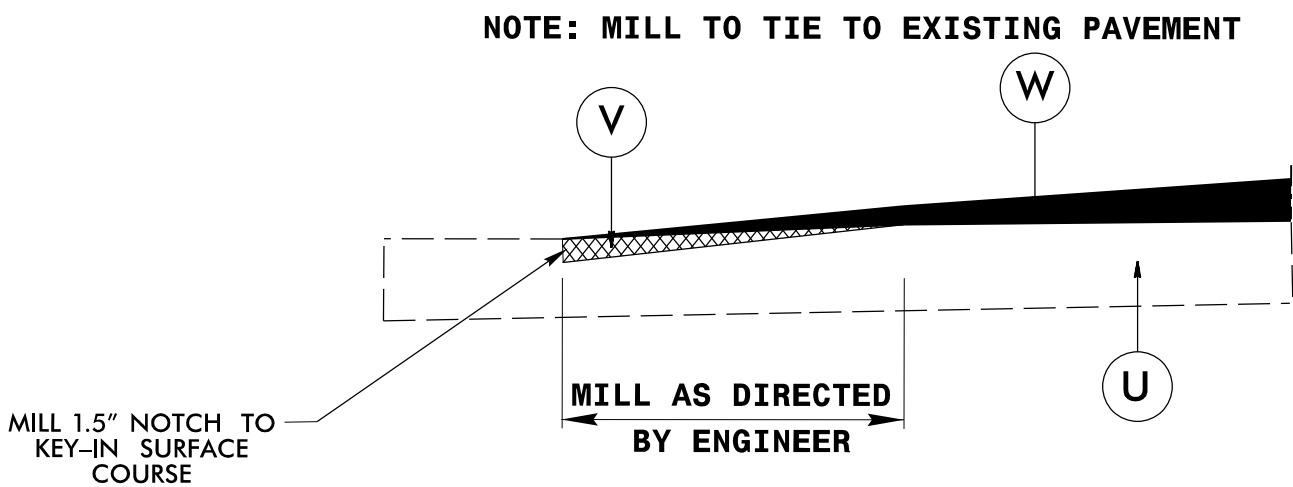


ROADWAY TYPICAL SECTION NO. 3

-L- STA. 12+65.80 TO 13+48.28
-L- STA. 14+68.40 TO 17+87.58
-Y- STA. 12+37.85 TO 14+40.10

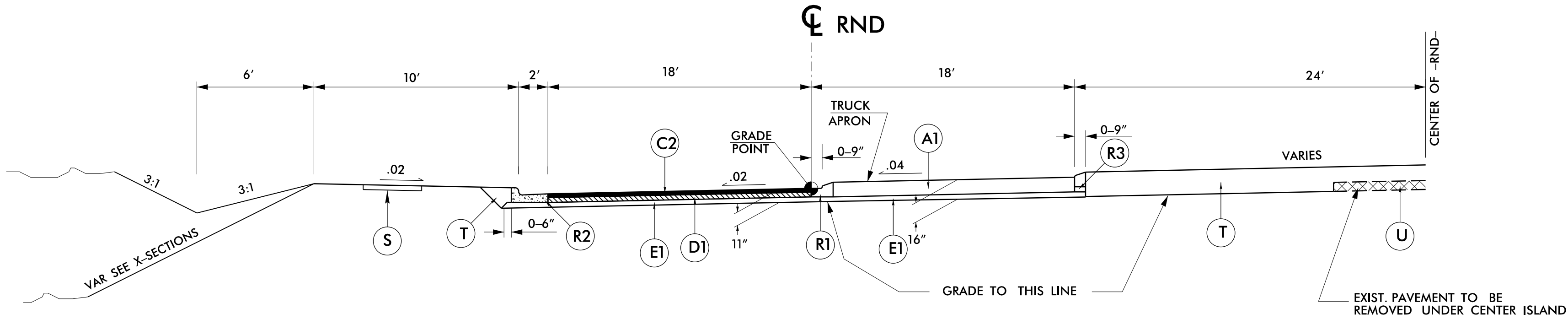
CURB EXISTS IN THESE RANGES:

-L- STA. 12+65.80 TO 15+83.68 RT
-L- STA. 12+17.68 TO 17+88.27 LT
-Y- STA. 12+37.85 TO 13+65.96 RT
-Y- STA. 12+37.85 TO 14+40.10 LT



INCIDENTAL MILLING DETAIL

-L- STA. 11+85.00
-L- STA. 17+88.27
-Y- STA. 14+40.10

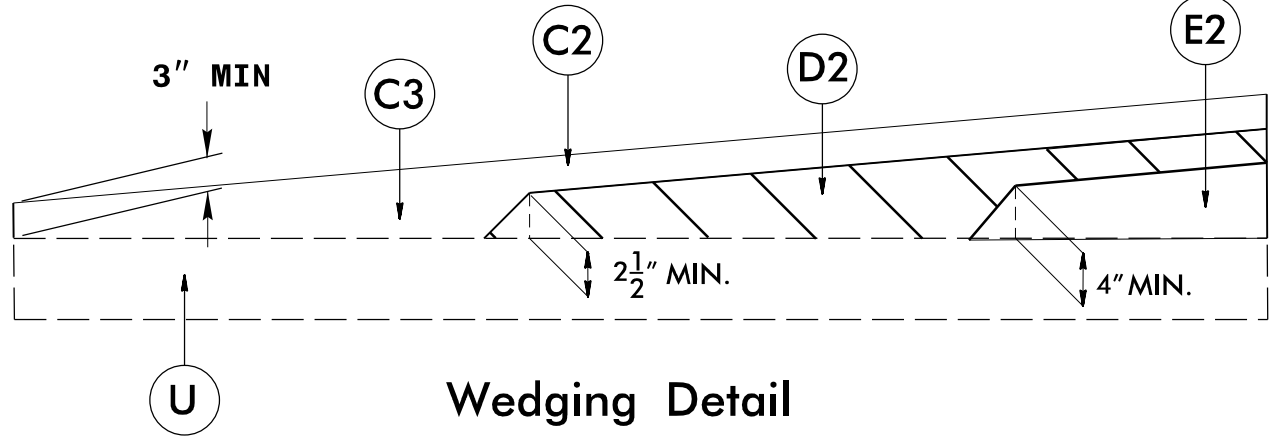


Roundabout
TYPICAL SECTION 4

-RND- STA. 10+00.00 TO 12+63.89

PAVEMENT SCHEDULE (PROPOSED PAVEMENT DESIGN)	
A1	12" PORTLAND CEMENT CONCRETE TRUCK APRON.
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1.5" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
J	PROP 6" AGGREGATE BASE COURSE
R1	1'-6" CONCRETE CURB AND GUTTER.
R2	2'-6" CONCRETE CURB AND GUTTER.
R3	9"x18" CONCRETE CURB.
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V	VARIABLE MILLING.
W	WEDGING (SEE STANDARD WEDGING DETAIL)

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



Wedging Detail

PROJECT REFERENCE NO.
U-5846

SHEET NO.
20-1

RW SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

SEPI

ENGINEERING & CONSTRUCTION

1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197

SECTION A-A

PLAN VIEW

STEP POOL DETAIL
NOT TO SCALE

NOTES:

- 1) STEPS TO BE SHORT, FREQUENT, AND CLOSELY SPACED.
- 2) POOL SPACING SHALL BE INVERSELY PROPORTIONAL TO STREAM SLOPE, AND DIRECTLY PROPORTIONAL TO BANKFULL WIDTH.
- 3) POOL DEPTHS AT BANKFULL ELEVATION SHALL BE TYPICALLY 2 TO 3 TIMES DEEPER THAN STEP DEPTHS AT BANKFULL ELEVATION.
- 4) ADEQUATE NUMBER OF FOOTER BOULDERS TO BE USED IN ORDER TO HOLD UP THE BOULDERS AT HEAD OF STEPS DURING HIGH ENERGY/HIGH FLOW EVENTS.
- 5) STEP POOL DEPTH SHOULD BE 2 TO 3 TIMES BANKFULL DEPTH.

SECTION A-A

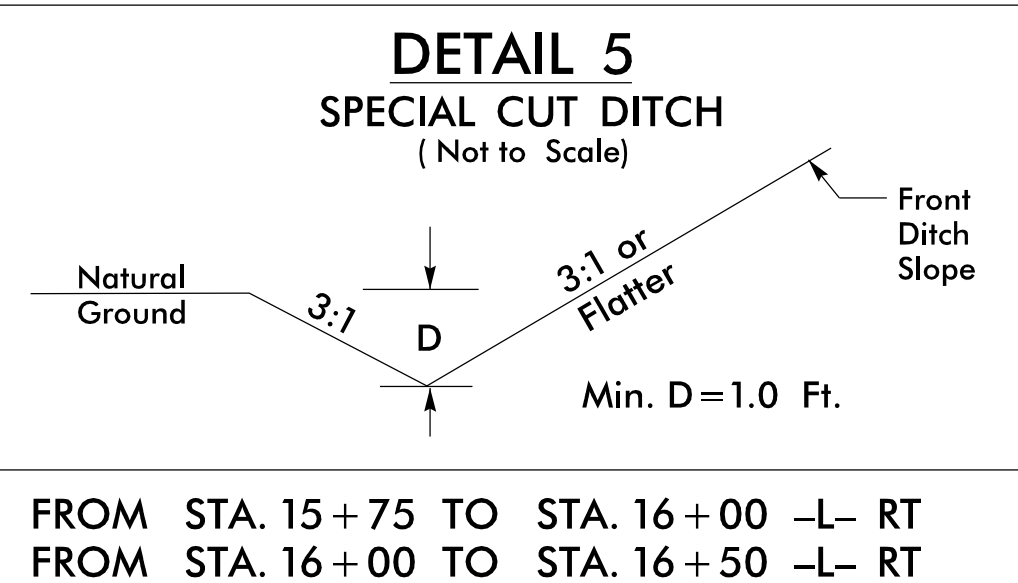
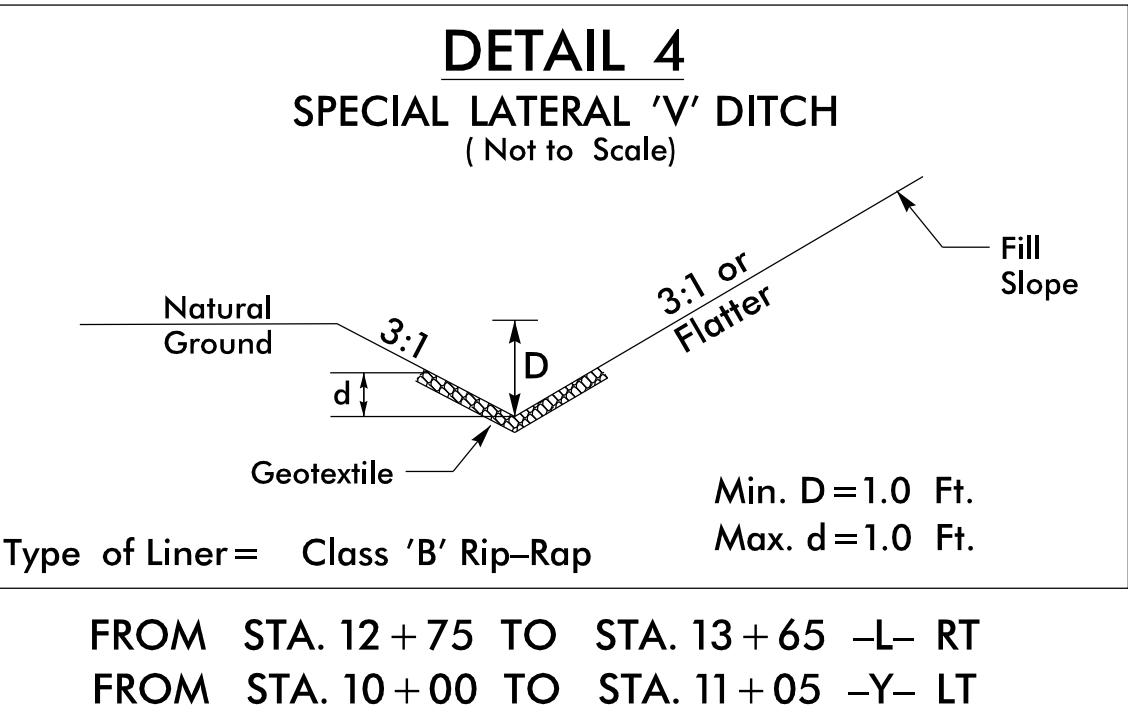
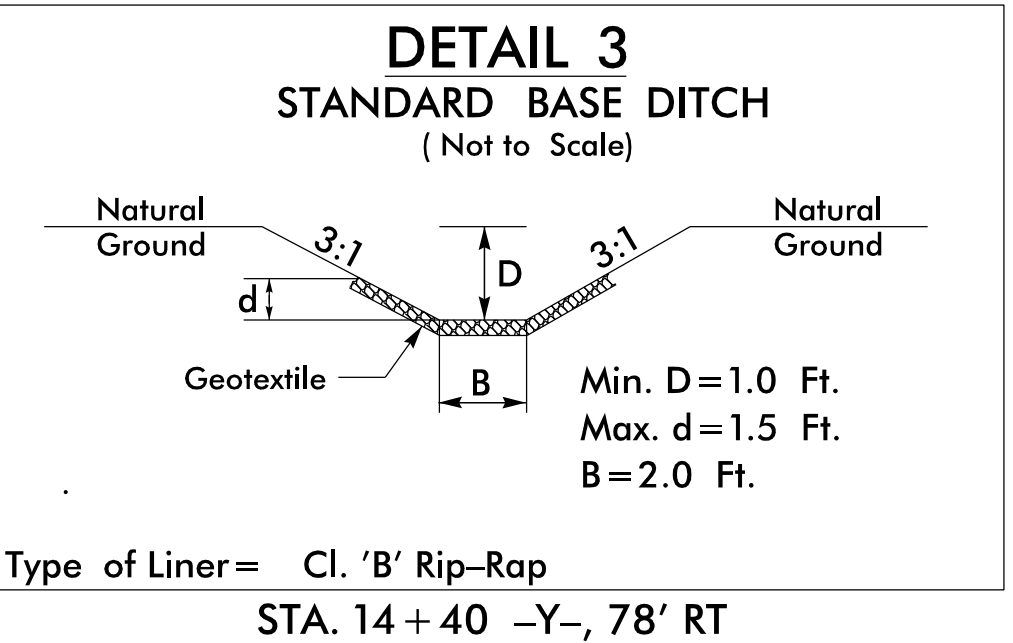
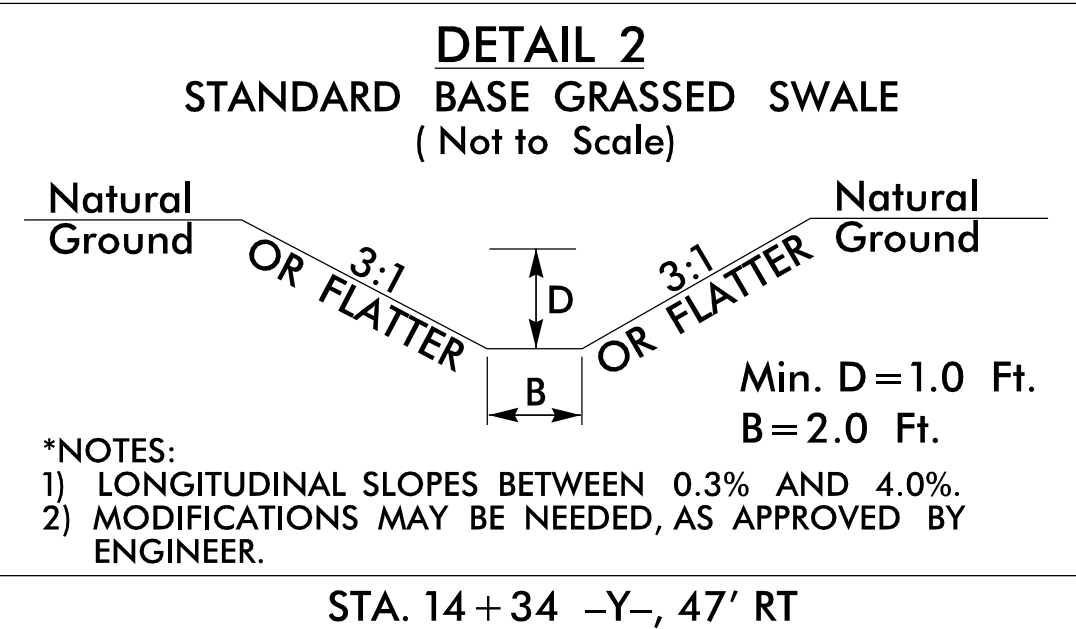
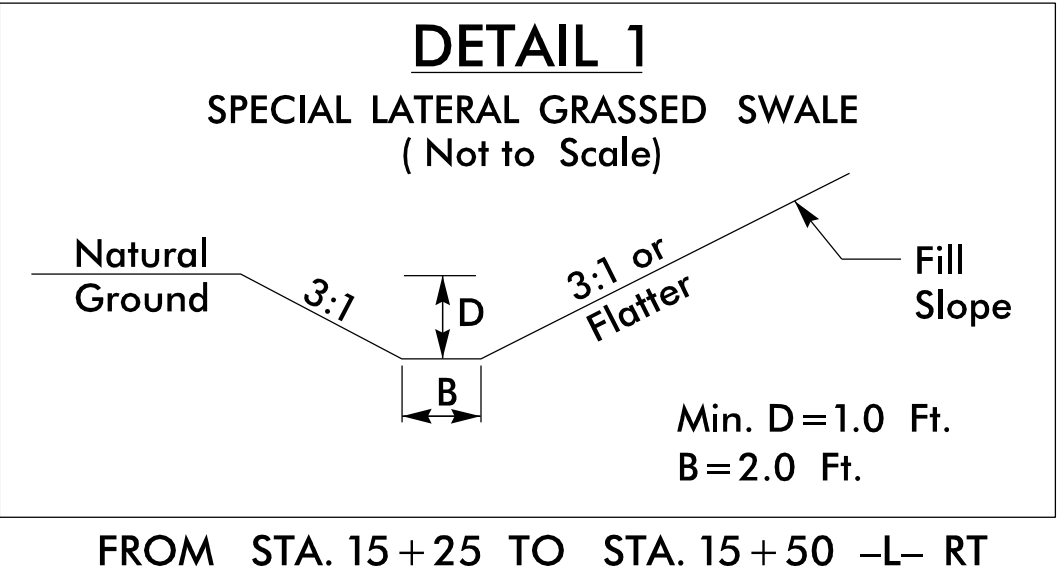
PLAN VIEW

ROCK CROSS VANE DETAIL FOR STEP POOLS
NOT TO SCALE

NOTES:

- 1) DEEPEST PART OF POOL TO BE IN LINE WITH WHERE VANE ARM TIES INTO BANKFULL.
- 2) DO NOT EXCAVATE POOL TOO CLOSE TO FOOTER BOULDERS.
- 3) CLASS "A" STONE CAN BE USED TO REDUCE VOIDS BETWEEN HEADERS AND FOOTERS.
- 4) COMPACT BACKFILL TO EXTENT POSSIBLE OR AT THE DIRECTION OF THE ENGINEER.
- 5) POOL DEPTH SHOULD BE 2 TO 3 TIMES BANKFULL DEPTH.

BOULDER DIMENSIONS (FT)			
STATION	HEIGHT	LENGTH	WIDTH
10+42 Y1	3.0	4.0	3.0
10+52 Y1	3.0	4.0	3.0
10+62 Y1	3.0	4.0	3.0
10+72 Y1	3.0	4.0	3.0
10+82 Y1	3.0	4.0	3.0
10+88 Y1	3.0	4.0	3.0
10+94 Y1	3.0	4.0	3.0
11+00 Y1	3.0	4.0	3.0



8/17/99

COMPUTED BY: MBCDATE: 5/23/17

CHECKED BY: _____DATE: _____

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK
IN CUBIC YARDS

SEPI

1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197

ENGINEERING &
CONSTRUCTION

PROJECT REFERENCE NO. SHEET NO.

U-5846 3B-1

STATION	STATION	UNCL. EXCAV.	EMBANK. + %	BORROW	WASTE
SUMMARY NO. 1					
-L- STA. 11 + 85.00	-L- STA. 13 + 25.00	389	20		369
-L- STA. 14 + 75.00	-L- STA. 16 + 50.00	482	156		326
TOTAL SUMMARY NO. 1		871	176		695
SUMMARY NO. 2					
-Y- STA. 10 + 00.00	-L- STA. 14 + 40.10	348	113		235
TOTAL SUMMARY NO. 2		348	113		235
SUMMARY NO. 3					
-RND- STA. 10 + 00.00	-RND- STA. 12 + 50.00	129	1067	938	
TOTAL SUMMARY NO. 3		129	1067	938	
SUMMARY TOTALS		1348	1356	938	930
SUMMARY TOTALS		1348	1356	938	930
WASTE IN LIEU OF BORROW				-930	
PROJECT TOTALS		1348	1356	8	
EST. 5% TO REPLACE BORROW PIT				0	
GRAND TOTALS		1348	1,334	8	
SAY		1400		20	

Note: Approximate quantities only. Unclassified Excavation, Shoulder Borrow, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

ASPHALT PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	SQUARE YARDS
-L-	14 + 84.00	16 + 28.00	LT	137.93
-L-	16 + 50.00	17 + 47.00	LT	60.14
-L-	12 + 68.00	13 + 16.00	RT	13.20
-Y-	12 + 70.00	14 + 26.00	RT	27.22
-Y-	14 + 26.00	14 + 40.00	RT	0.43
			TOTALS	238.92
			SAY	260

8/17/2017 11:58:46 AM Rdwy_sum_3B-1.dgn
User: jrd

SUB-REGIONAL & REGIONAL

[illegible][illegible][illegible]

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 54" & OVER)

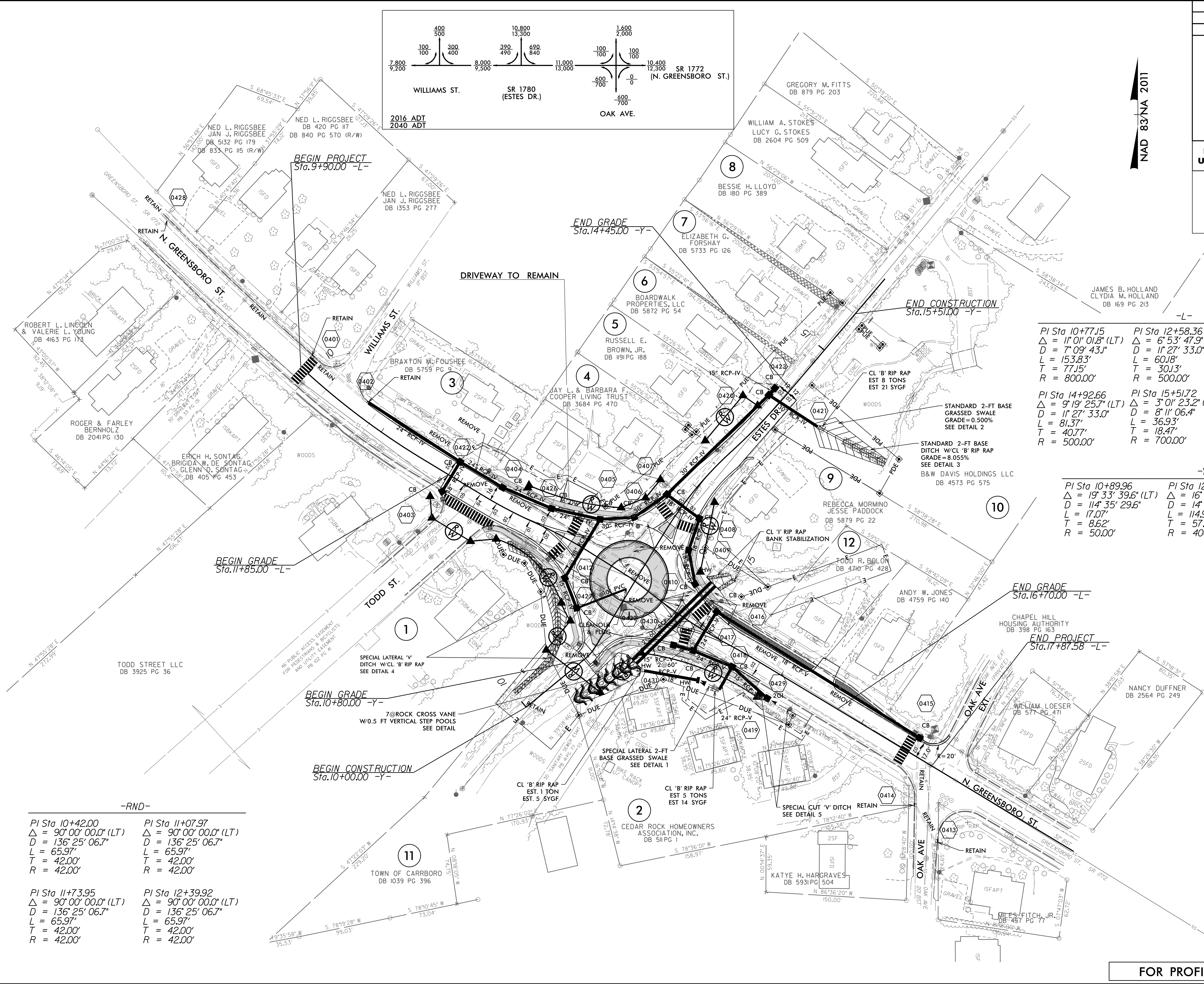
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8/17/99

8/7/2017
U:\5846_Rdy_psh_04.dgn
JST/rodrigue

REVISIONS

R/W REVISION 8/8/17 - ADDED PARCEL 12 (TODD R. BOLON)



PROJECT REFERENCE NO. U-5846		SHEET NO. 4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
SEPI ENGINEERING & CONSTRUCTION 1025 Wade Avenue Raleigh, NC 27605 Tel: 919-789-9977 Fax: 919-789-9971 License: C-2197		

FOR PROFILES, SEE SHEET NO. 5

ALIGNMENT AND RIGHT OF WAY DETAIL

PROJECT REFERENCE NO.
U-5846

SHEET NO.
4A

RW SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

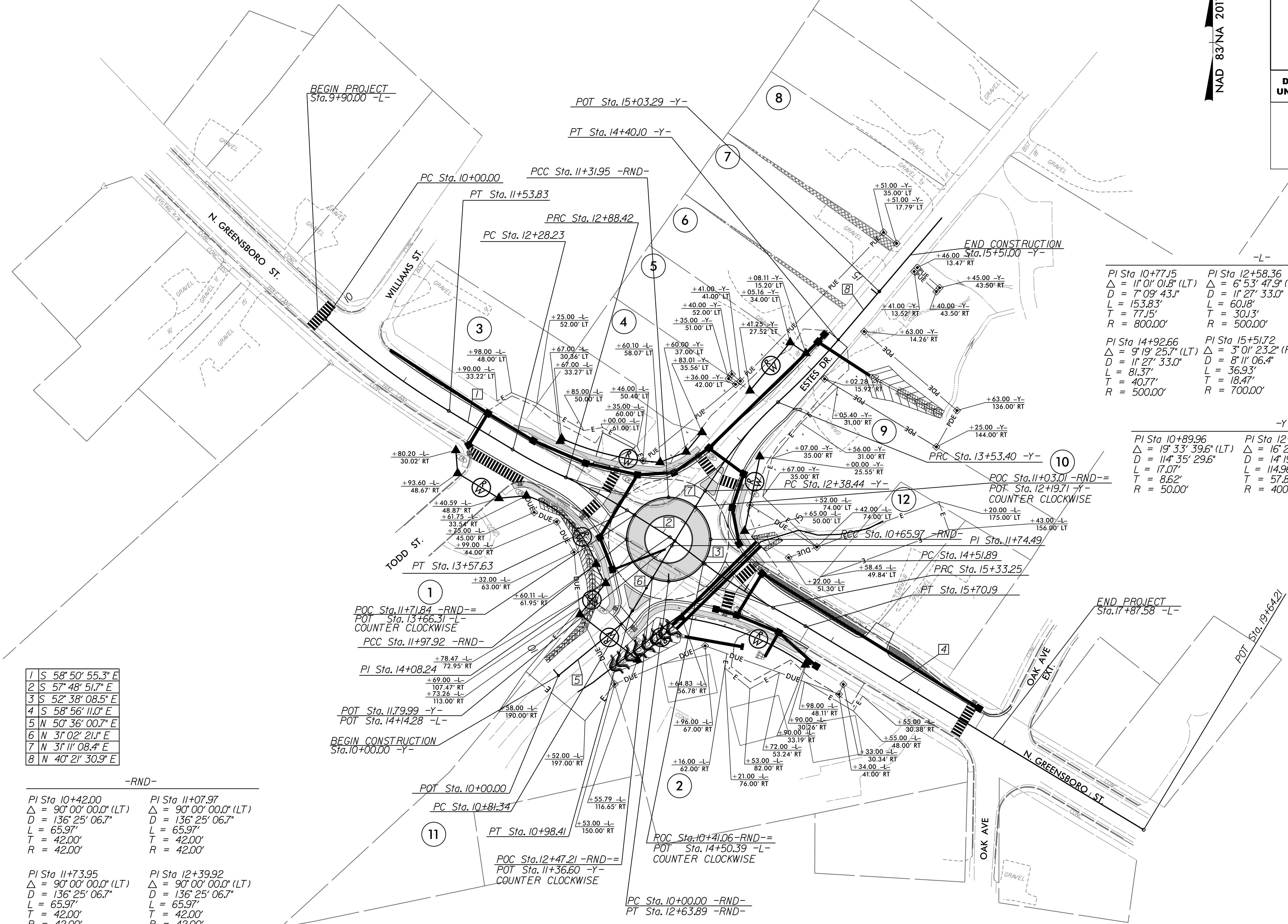
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

SEPI

ENGINEERING & CONSTRUCTION

1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9977
License: C-2197

NAD 83/NA 2011



1	S 58° 50' 55.3" E
2	S 57° 48' 51.7" E
3	S 52° 38' 08.5" E
4	S 58° 56' 11.0" E
5	N 50° 36' 00.7" E
6	N 31° 02' 21.1" E
7	N 31° 11' 08.4" E
8	N 40° 21' 30.9" E

-RND-	
PI Sta 10+42.00 Δ = 90° 00' 00.0" (LT) D = 136° 25' 06.7" L = 65.97' T = 42.00' R = 42.00'	PI Sta 11+07.97 Δ = 90° 00' 00.0" (LT) D = 136° 25' 06.7" L = 65.97' T = 42.00' R = 42.00'
PI Sta 11+73.95 Δ = 90° 00' 00.0" (LT) D = 136° 25' 06.7" L = 65.97' T = 42.00' R = 42.00'	PI Sta 12+39.92 Δ = 90° 00' 00.0" (LT) D = 136° 25' 06.7" L = 65.97' T = 42.00' R = 42.00'

PI Sta 10+77.15 Δ = 11° 01' 01.8" (LT) D = 7° 09' 43.1" L = 153.83' T = 77.15' R = 800.00'	PI Sta 12+58.36 Δ = 6° 53' 47.9" (LT) D = 11° 27' 33.0" L = 60.18' T = 30.13' R = 500.00'	PI Sta 13+23.08 Δ = 7° 55' 51.4" (RT) D = 11° 27' 33.0" L = 69.21' T = 34.66' R = 500.00'
---	--	--

PI Sta 14+92.66 Δ = 9° 19' 25.7" (LT) D = 11° 27' 33.0" L = 81.37' T = 40.77' R = 500.00'	PI Sta 15+51.72 Δ = 3° 01' 23.2" (RT) D = 8° 11' 06.4" L = 36.93' T = 18.47' R = 700.00'
--	---

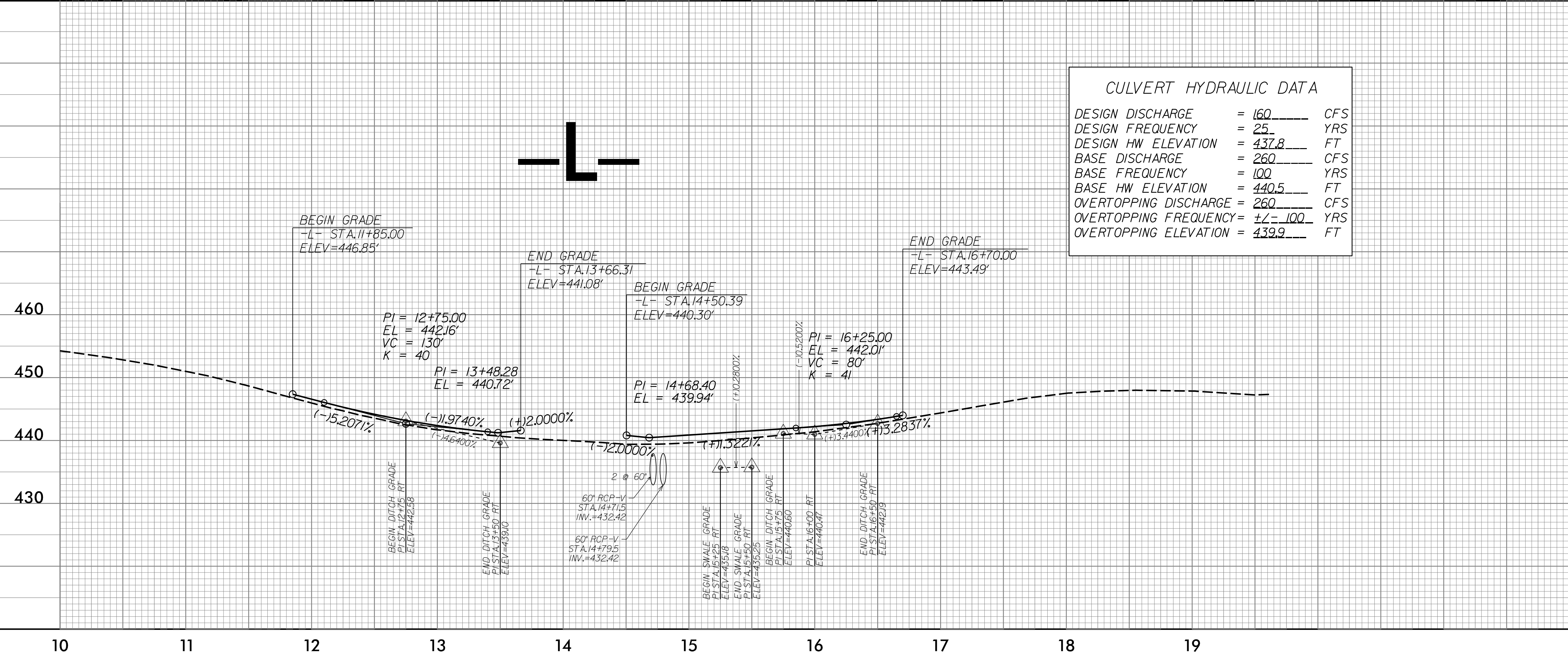
PI Sta 10+89.96 Δ = 19° 33' 39.6" (LT) D = 114° 35' 29.6" L = 17.07' T = 8.62' R = 50.00'	PI Sta 12+96.32 Δ = 16° 28' 02.6" (RT) D = 14° 19' 26.2" L = 114.96' T = 57.88' R = 400.00'	PI Sta 13+96.81 Δ = 7° 17' 40.1" (LT) D = 8° 24' 48.5" L = 86.70' T = 43.41' R = 681.00'
--	--	---

FOR PROFILES, SEE SHEET NO. 5

5/28/99

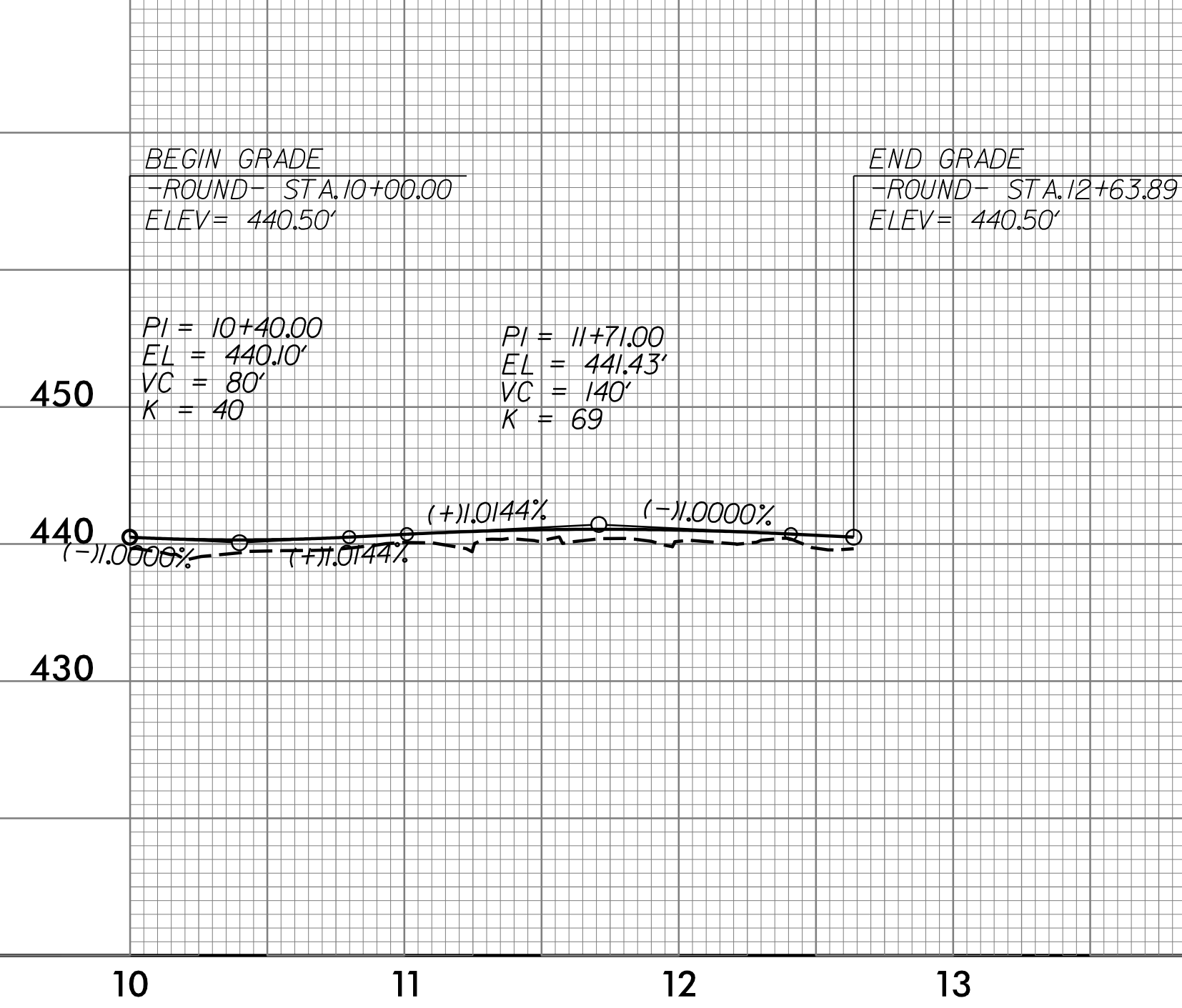
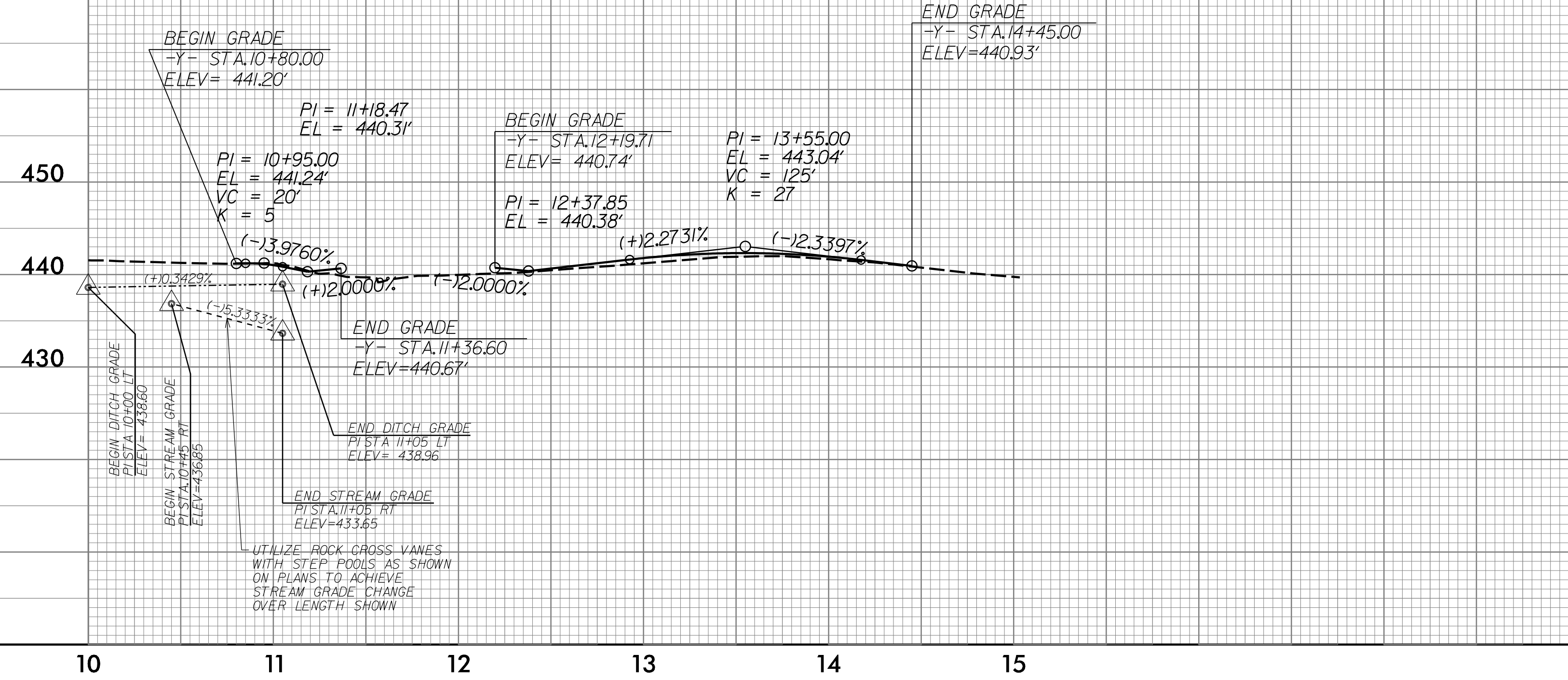
PROJECT REFERENCE NO. <i>U-5846</i>		SHEET NO. <i>5</i>
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
SEPI ENGINEERING & CONSTRUCTION 1025 Wade Avenue Raleigh, NC 27605 Tel: 919-789-9977 Fax: 919-789-9591 License: C-2197		

CULVERT HYDRAULIC DATA		
DESIGN DISCHARGE	= 160	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 437.8	FT
BASE DISCHARGE	= 260	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 440.5	FT
OVERTOPPING DISCHARGE	= 260	CFS
OVERTOPPING FREQUENCY	= ± 100	YRS
OVERTOPPING ELEVATION	= 439.9	FT



-Y-

-ROUND-



8/7/2017 U-5846_Rdy.pfl 05.dgn
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CROSS SECTION INDEX

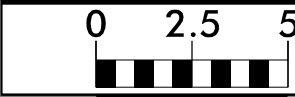
X-1 CROSS SECTION INDEX

X-2 THRU X-5 -L-

X-6 THRU X-8 -Y-

X-9 THRU X-11 -RND-

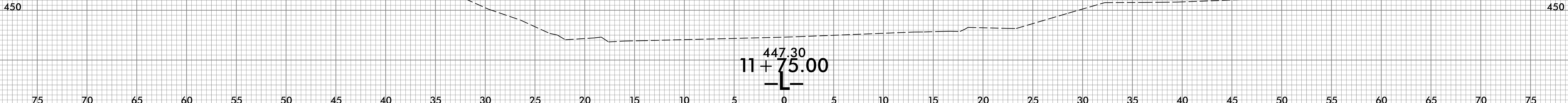
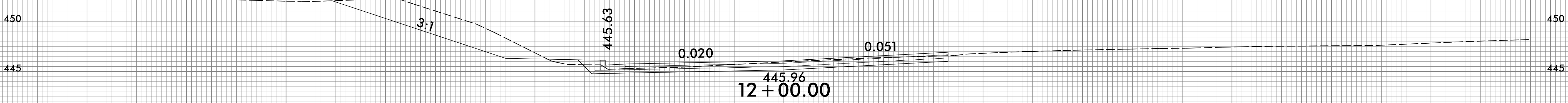
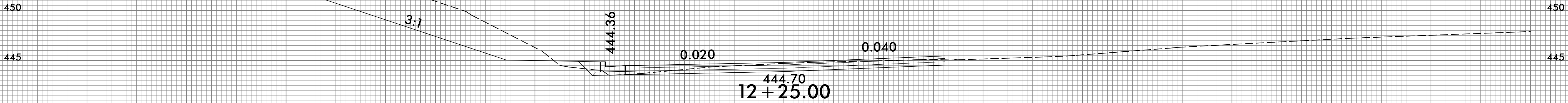
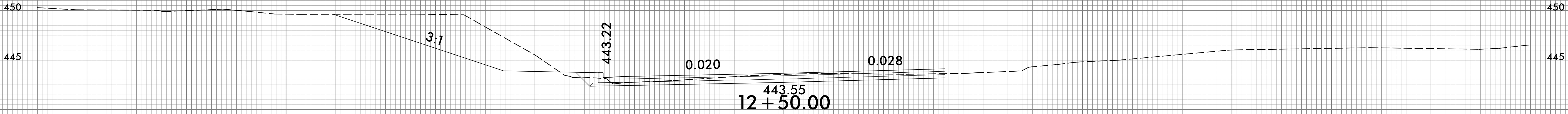
6/23/16



PROJ. REFERENCE NO.
U-5846

SHEET NO.
X-2

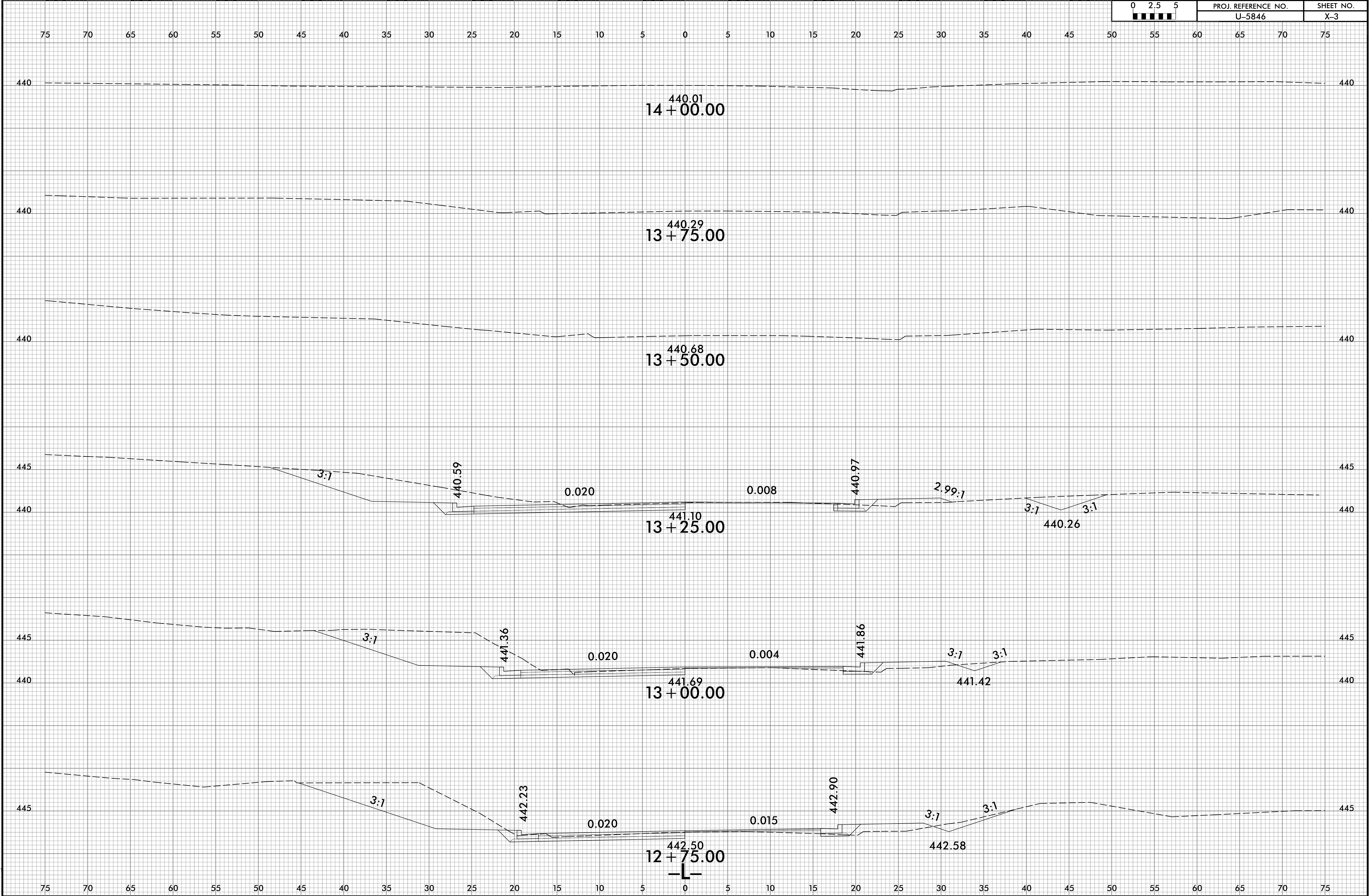
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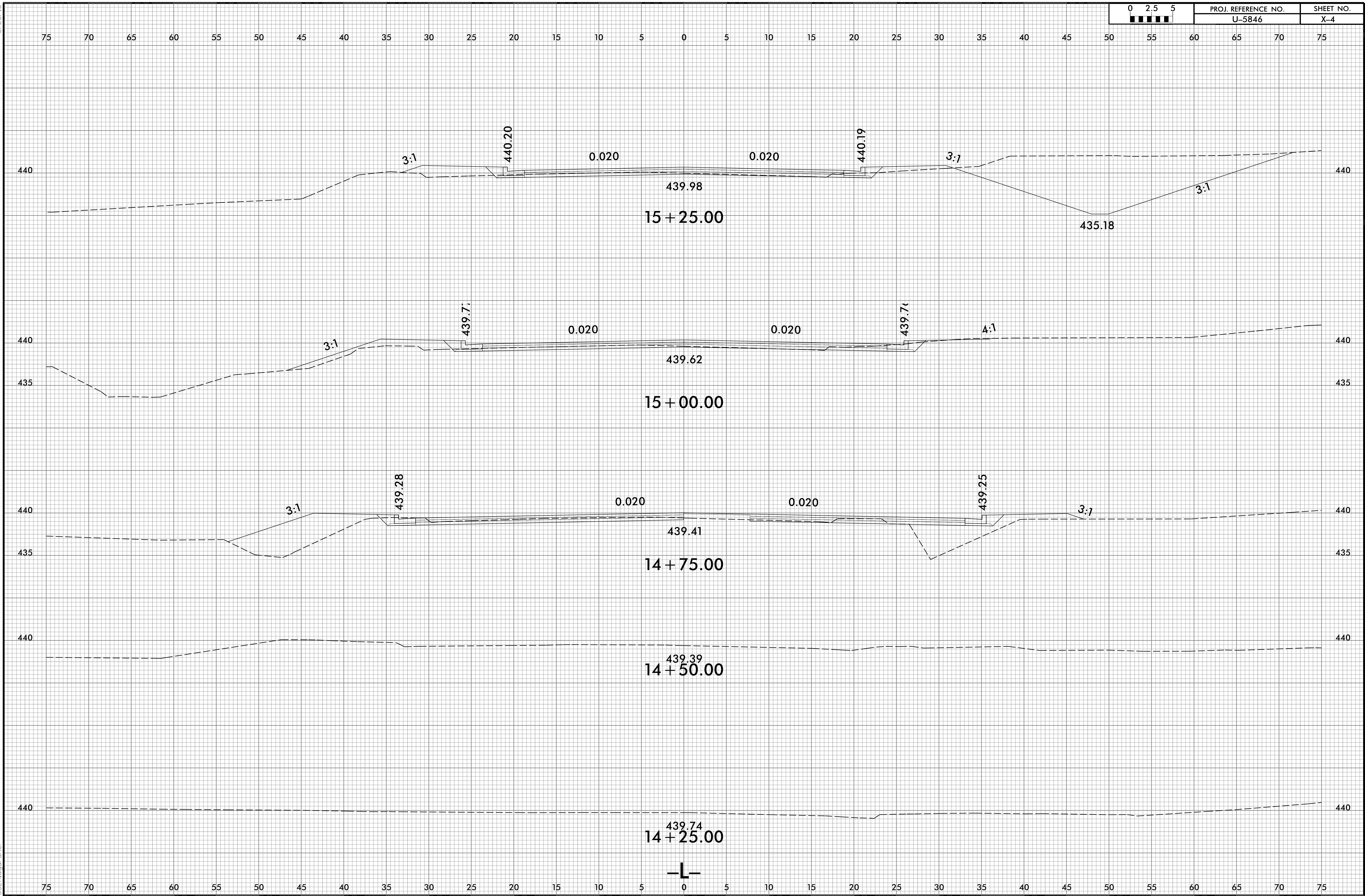


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6/23/16

8/7/2017
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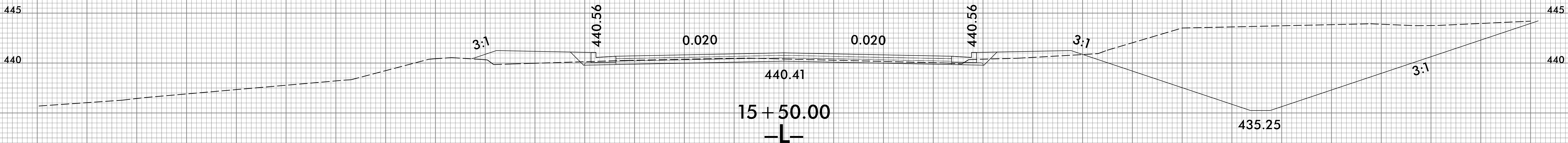
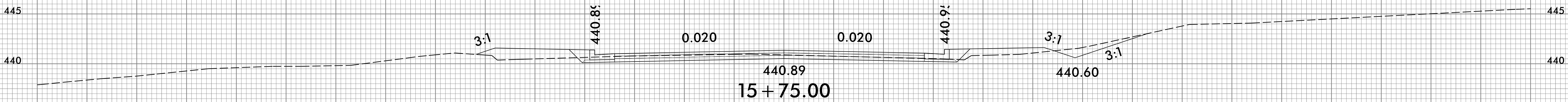
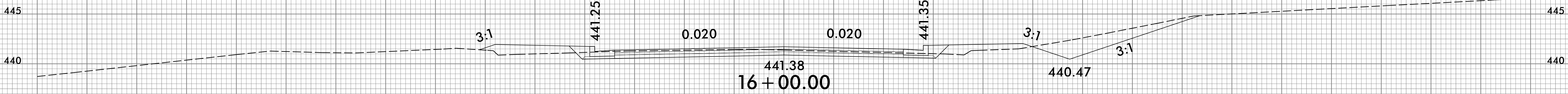


6/23/16



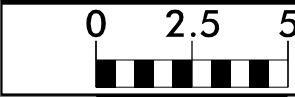
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U-5846	X-5

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8/7/2017
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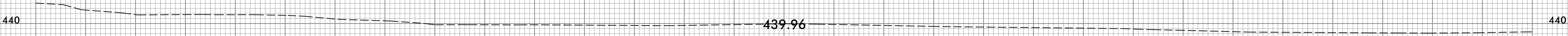
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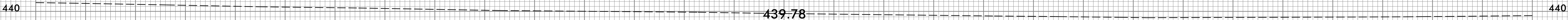
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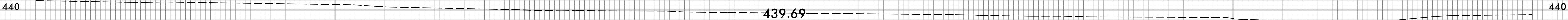
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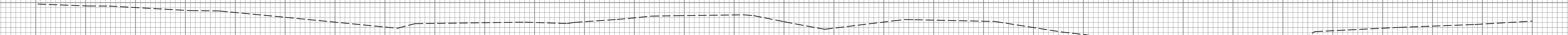
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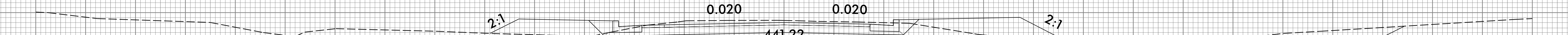
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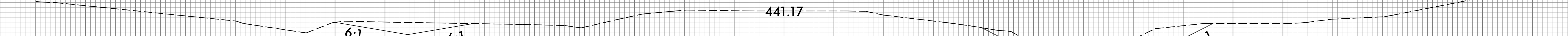
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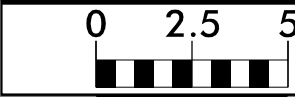


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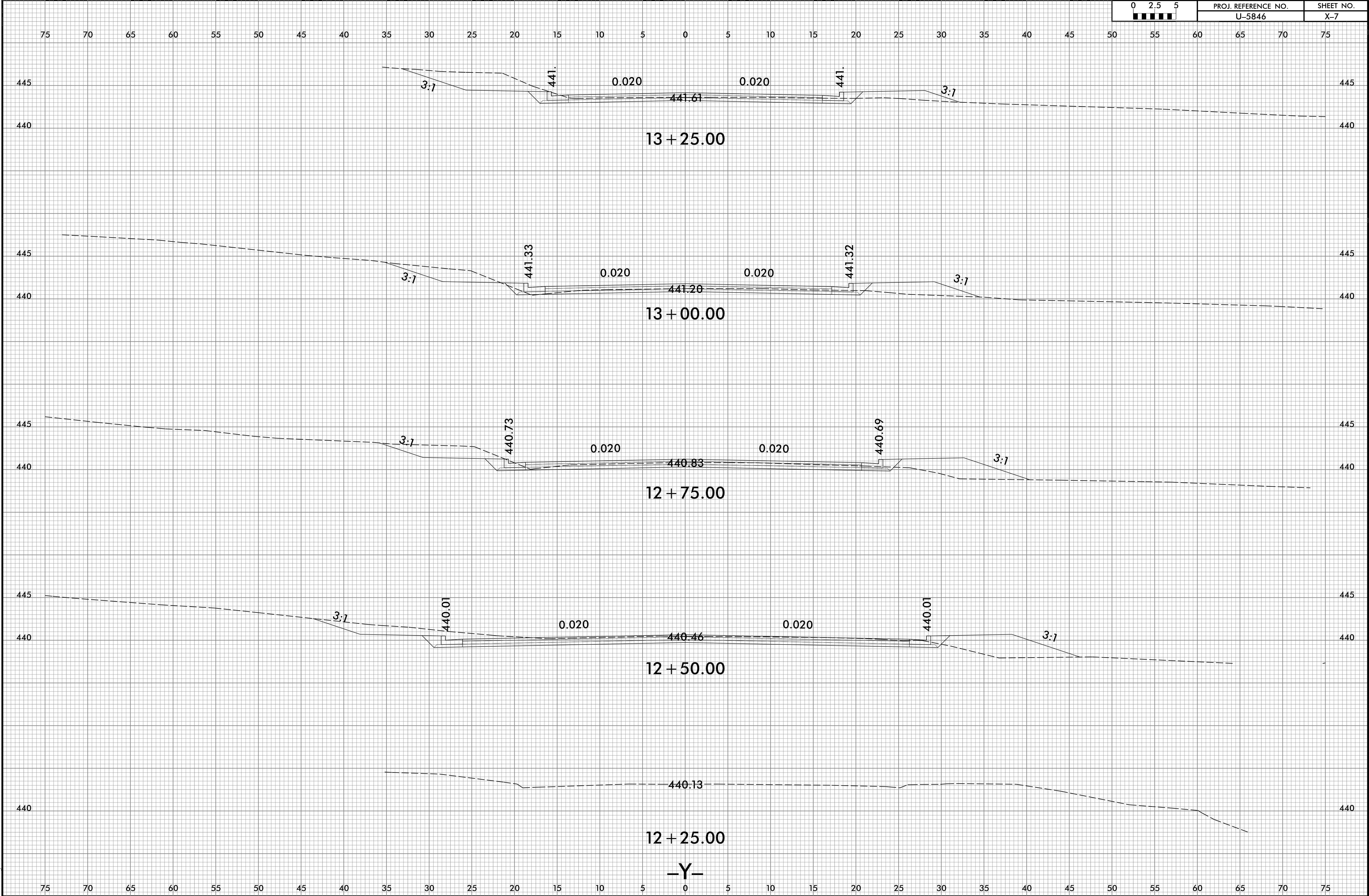
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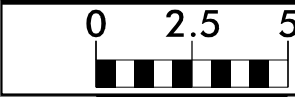
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X-7



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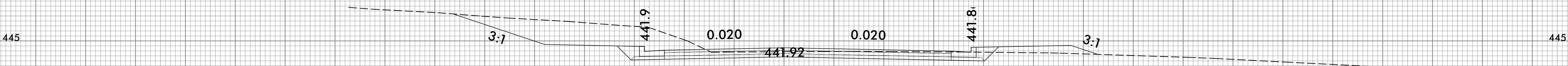
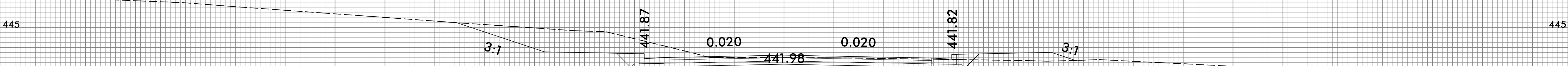
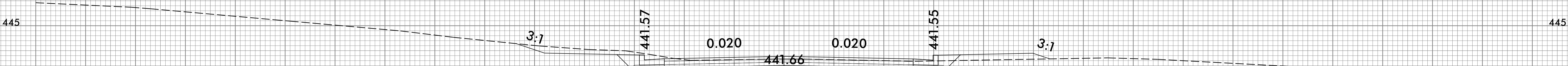
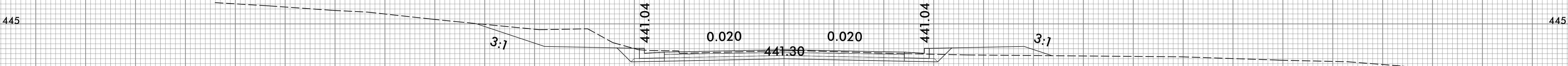
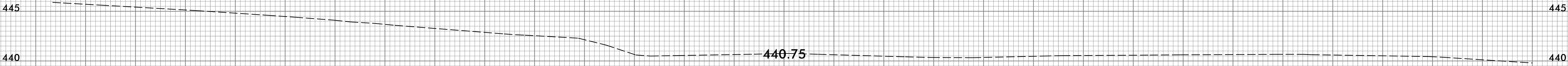
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PROJ. REFERENCE NO.
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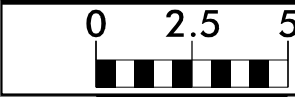
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8/7/2017
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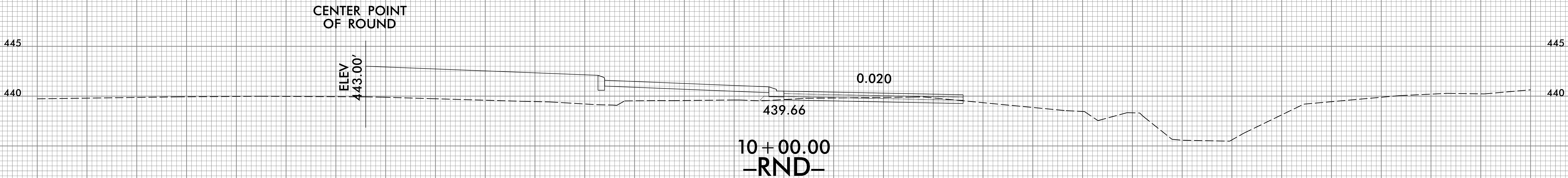
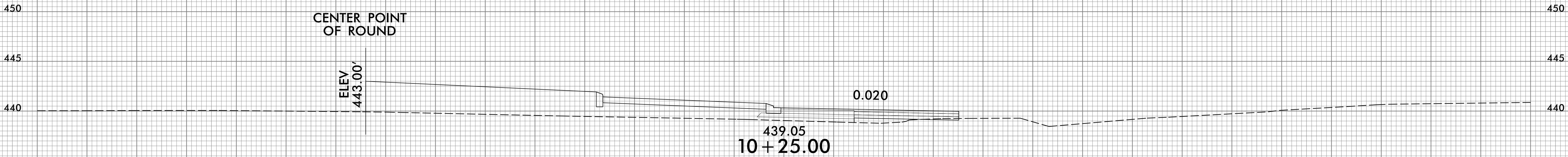
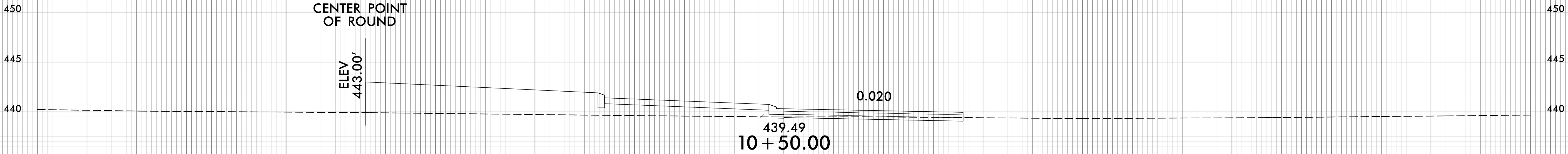
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PROJ. REFERENCE NO.
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X-9

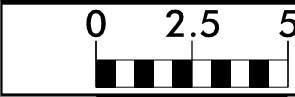
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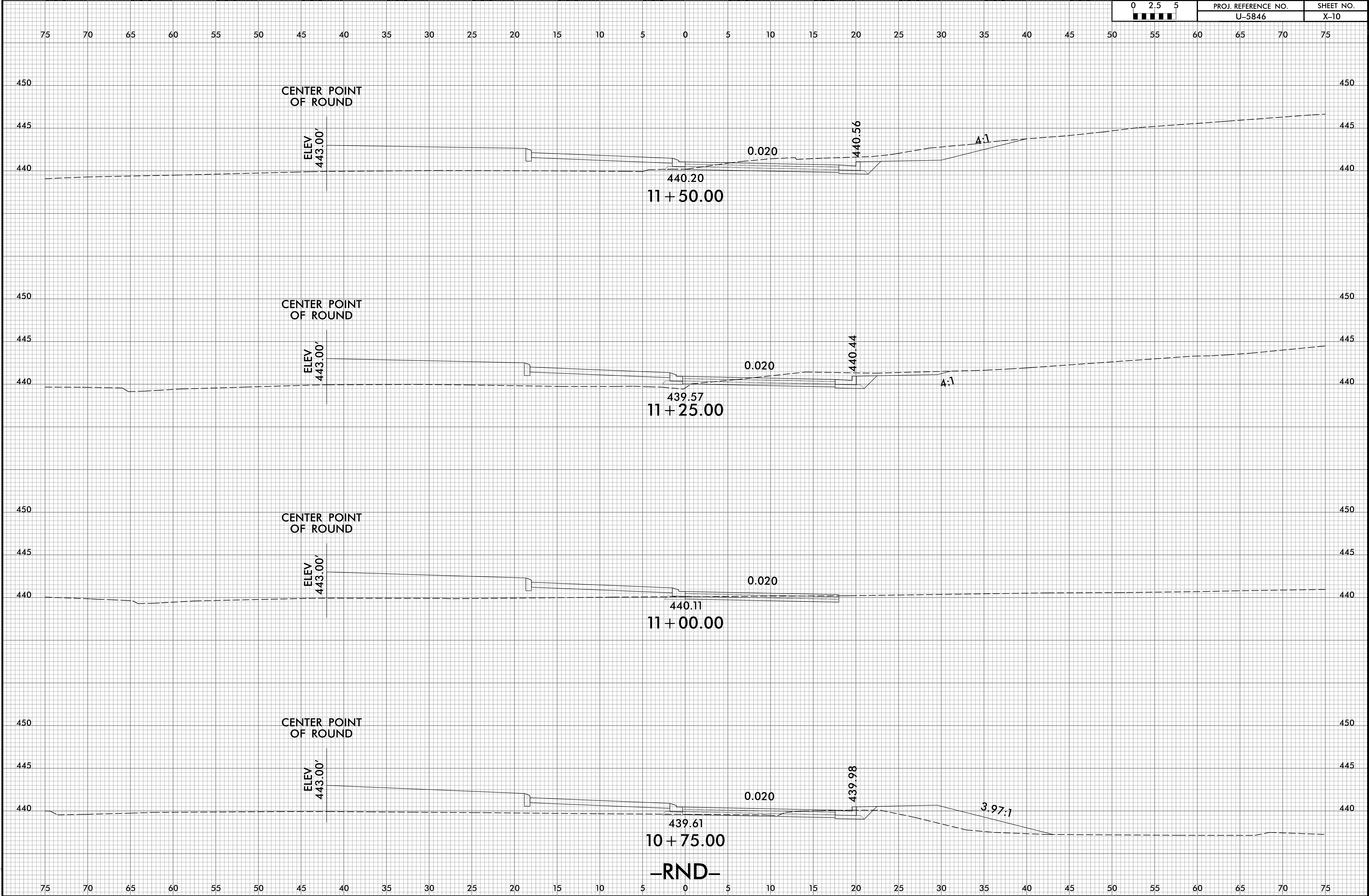
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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-5846	X-10



8/7/2017
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